

A B S T R A C T

A METHOD AND A DEVICE FOR REGENERATING AN EXHAUST LINE  
PARTICLE FILTER, AND A SUITABLE PARTICLE FILTER

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The invention relates to a method of regenerating an  
exhaust line particle filter wherein particles lining the  
walls of the filter are heated to a temperature higher  
than their combustion temperature, which method is  
10 characterized in that:

- the heat necessary to heat said particles is  
produced by adding to a solid first compound present in a  
reactor a gaseous second compound adapted to combine with  
said first compound to form a solid third compound by way  
15 of an exothermic reaction, and

- the heat resulting from the combustion of said  
particles is used to regenerate said solid first compound  
and said second compound by way of an endothermic  
reaction that is the opposite of said exothermic  
20 reaction.

The invention also relates to an exhaust line and a  
particle filter for implementing the above method.

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Translation of the title and the abstract as they were when originally filed by the  
35 Applicant. No account has been taken of any changes that may have been made  
subsequently by the PCT Authorities acting ex officio, e.g. under PCT Rules 37.2,  
38.2, and/or 48.3.